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US Bur of Mines
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Pittsburgh, Pa.
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Sci - Eng

May 59

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Pittsburgh, Pa. Tr 106

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Diesel Locomotives in Mines, by J. Boulinier.

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Mechanism of the Ignition of Firedamp Mix-
tures by Firing of Explosives, by E. Audibert.

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No 530, 1948, pp 173-194.

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CSIRO-3311

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Charging Shot-Holes, by M. M. Poulet,

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SLA 59-18560

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Handwritten:
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-LA 11-22-59 89,960

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Washing Fine Coal in Cyclones, by S. de Chawlowski.

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Sci - Chem, Engr
8 Apr 62

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Some General Information on Fly Ash, by A. Jarrige;
The Use of Fly Ash in Cement, by Henri Lafuma;
The Use of Fly Ash in Road Construction, by M.
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Jul 67

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Life in the Most Arid Zones of the Sahara, by F.
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Sci-Mat/Mat
Apr 65

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Apr 1977 CIB/dex

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SOME RESULTS OBTAINED IN THE FLOTATION
OF NON-METALLIC MINERALS. [1963] 15p.
Order from SLA \$1.60 63-14551

Trans. of Rev[ista de] Ing[enieria] Quim[ica] (Chile)
1963, v. 2, no. 2, p. 17-28.

DESCRIPTORS: *Flotation (Separation), *Ores
(Non-metallic), *Minerals, Limestone, Phosphates,
Apatite, Calcite, Cements, Manufacturing methods.

(Engineering--Chemical, TT, v. 10, no. 4)

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1. Canguilhem C., H.

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Studies of Trieste of Cattle, Piroplasmosis
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SPANISH, per, Revista del Instituto
Bacteriologico, Vol V, No 4, 1928,
pp 429-468.

CSIRO 4752

Sci - Biol
Mar 62

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Pig, by Eugenio Suarez N-E Amado P., 18 pp.
UNCL

SPANISH, per, Revista del Instituto Bacteriologico
(Chile), Vol VI, No 1/2, 1937, pp 17-33.

ACMI 2-8030
ID 2196311

Sci - Med
Mar 61

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Preliminary Note on the Use of the Electron
Microscope for Studying Lubricating Oils, by
P. de. Fouchecour, T. Reis, 6 p.

FRENCH, par, Rev Inst Franc Petrole , 1947,
Vol II, No 6, pp 288-292.

SLA 60-10344

Sci
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Vol III, No 3

112, 010

63-18217

Broeze, J. J. and Stillebroer, C.
UTILIZATION OF LEAN MIXTURES IN AVIATION
ENGINES: ADAPTATION OF ENGINE AND FUEL TO
THE OPERATION OF AVIATION ENGINES ON LEAN
MIXTURES. [1963] 11p (figs omitted)
Order from SLA \$1.60 63-18217

Trans. of Rev[ue de l']Institut Fran[cais du]-
P[et]role [et Annales des Combustibles Liquides].
1949, v. 4, p. 653-660.

DESCRIPTORS: *Aviation fuels, *Fuel consumption,
*Airplane engines, Operation, Ignition, Ignition lag.

Fuel economy is the main incentive to lean mixture
operation. The factors are discussed which limit in
practice the application of lean mixtures and restrict
the advantages theoretically to be gained. Experiments
showed that combustion delay following ignition is the
principal restricting factor, not combustibility.
(Materials--Fuels, TT, v. 10, no. 11) (over)

I. Broeze, J. J.
II. Stillebroer, C.
III. Title: Adaptation...

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Bacteriologie et Petrole, by J. Appert, 16 pp.

FRANCE, par, Rev Inst Franc Petrole, Vol VII,
1952, pp 170-180, 169.

SLA 57-3072

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Introduction to a Study of the Behavior of Drilling
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Picard, 35 pp.

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pp 163-167.

SIA 3235

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Auf 58

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Analogue Study of the Radial, Circular, Transient
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Study of Natural Gas Reservoirs, by A. Houpeurt,
131 pp.

FRENCH, per, ~~Revue de l'Institut Francais du~~
~~Petrole et Annales des Combustibles Liquides~~, Vol VIII,
No 4, 1953, pp 129-151; No 5, pp 193-222; No 6,
pp 248-276.

SIA 60-14047

Sci
OTS, Vol III, No 8
Apr 61

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Letort, Maurice and Combe, André.
THE STUDY OF THE ELIMINATION OF "LEAD DE-
POSITS" IN ENGINE CYLINDERS WITH THE AID OF
VAPORS OF ORGANIC BROMINE COMPOUNDS.
Contribution 2. [1963] [32p] (figs omitted) 2 refs
Order from SLA \$3.60
TT-64-10115

Trans. of Revue de l'Institut Français du Pétrole et
Annales des Combustibles Liquides, 1953, v. 8
[p. 491-503]

DESCRIPTORS: *Combustion deposits, Engine cylinders,
Corrosion, Lead compounds, Oxides, Ethyl radicals,
Ethylenes, Bromides, *Fuel additives,

(Materials--Fuels, TT, v. 11, no. 5)

TT-64-10115

I. Letort, M.
II. Combe, A.

Office of Technical Services

Avico, G. and Tcherkezoff, G.
PHOSPHORUS IN DOPES FOR LUBRICANTS. [1963] 15p
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Order from SLA \$1.60

TT-64-14677

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[et Annales des Combustibles Liquides] 1954, v. 9,
no. 2, p. 51-66.

(Materials--Lubricants, TT, v. 11, no. 11)

TT-64-14677

I. Avico, G.
II. Tcherkezoff, G.

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Formation and Speed of Spherical Explosive Waves
in Gaseous Mixtures, 21 pp. by H. Manson.

FRENCH, per, Revue de l'Institut Francais Petrole,
Vol IX, 1954, pp 133-143. CIA 649082

FDD/X-3614

S-1 - Chem

CFC/1 59-18472

Jul 59

61-16457

Courtel, R. and Bernalin, B.

**APPLICATION OF THE OPTICAL METHOD FOR THE
EXAMINATION OF LUBRICATING GREASES. (1961)**

7p. 8 refs.

Order from SLA \$1.10

61-16457

Trans. of Revue de l'Institut Français du Pétrole
(et Annales des Combustibles Liquides) 1964, v. 9
(no. 5) p. 202-213.

DESCRIPTORS: "Greases, "Lubricants, Test methods,
Microscopy, Microstructure.

(Materials--Lubricants, TT, v. 6, no. 6)

I. Courtel, R.
II. Bernalin, B.

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Robert, L. and Favre, J.
INFRA-RED SPECTROMETER IN ANALYSIS OF
MINERAL OILS AND GREASES. [1962] 11p.
Order from K-II \$13.75 K-II 3759 c

Travail de l'Institut Français du Pétrole
[et Annales des Combustibles Liquides] 1955, v. 10,
p. 164-169

DESCRIPTORS: *Infrared spectroscopy, Analysis,
*Oils, *Greases, *Mineral oils.

(Chemistry--Analytical, TT, v. 9, no. 5)

62-22683

- I. Robert, L.
- II. Favre, J.
- III. K-II-3759-c
- IV. Kresge-Hooker Science
Library Associates,
Detroit, Mich.

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Phosphorus in Dopes for Lubricants, by
G. Avico, E. Tchekesoff, 21 pp.

FRANCE, par, Rev de l'Inst Francaise du
Petrole ~~Annuaire des Combustibles~~, Vol X,
1955, pp 219-234.

SLA 60-18490

Sci
Vol IV, No 11
Jun 62

199, 285-

The Synthesis of Detergent Additives for Lubricating Oils. Part II. Infra-red Absorption Study, by J. Favre, 9 pp.

FRENCH, par, Rev Inst Franc Petrole Ann Combustibles Liquides, Vol X, No 5, 1955, pp 470-476.

Asso Tech Ser 79079

Jul 58

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The Synthesis of Detergent Additives for Lubricating
Oils. Part I. A Chemical Study, by J. Artonoul,
5 pp.

FRENCH, par, Rev Inst France Petrole Ann combusti-
bles Liquides, Vol X, No 5, 1955, pp 466-469.

Asso Tech Serv 73077

17-10-55

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A New Electronic Program Control Device for Test
Benches; the IFP-PTF Apparatus, by R. Courtol,
M. Allec, 26 pp.

FRENCH, Per, Rev de l'Institut Francais du
Petrole, 1955, Vol X, No 5, pp 487-499.

SLA 59-10814

Sci

Nov 59

Vol 2, No 3

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Tiraspolsky, W., Rouviere, R., and Chare, J.
 ROTARY DRILLING AND THE DEVELOPMENT OF
 TURBODRILLING (Le Forage par Moteur Souterrain
 et le Developpement du Turbodorage). [1962] [63]p.
 Order from SLA \$6.60 62-16656

Trans. of Rev[ue de l']Inst[itut] Franc[ais du] P[et]role
 et Ann[ales des Combustibles Liquides] 1955, v. 10,
 no. 8, p. 836-911.

DESCRIPTORS: *Drilling machines, Compressors.
 *Turbines, *Rotary compressors, Industrial machines.

The authors have tried to give a summary of the theory
 of the drilling turbine and of the methods of turbine
 drilling for the use of the technicians already ac-
 quainted with the practical development of these tech-
 niques. The article contains also a study of the econom-
 ical and industrial conditions that are favorable for the
 (Machinery, Fabrications and Accessory Equipment,
 TI, v. 9, no. 4) (over)

62-16656

I. Tiraspolsky, W.
 II. Rouviere, R.
 III. Chare, J.

Office of Technical Services

Salomita, T.

HOW V. L. IMPROVERS ACT IN MINERAL OILS.

[1963] 100p (figs omitted)

Order from K-H \$120.00

K-H 5445

Trans. from *Revue de l'Institut Français du Pétrole et Annales des Combustibles Liquides*, 1950 (V. TT, no. 4).

DESCRIPTORS: *Mineral oils. Viscosity. Temperature. Petroleum.

(Materials, TT, v. 10, no. 12)

63-22821

- I. Title: V. L. Improvers
- I. Salomita, T.
- II. K-H-5445
- III. Kresge-Hooker Science Library Associates, Detroit, Mich.

Office of Technical Services

Detergent Oils and Their Dispersive Properties, by
J. Larbre, 17 pp.

FRENCH, per, Revue de l'Institut Francais du
Petrole, Vol XI, 1956, pp 1298-1312.

SLA 59-10660

Sci - Chem
Sep 59
Vol 2, No 1

TI 24-3511

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Dyson, A.
COMPLETION OF A TESTING METHOD ALLOWING
THE DETERMINATION OF THE INFLUENCE OF
LUBRICANTS ON THE SEIZURE OF PISTONS IN
2-STROKE GASOLINE MOTORS. 12p
Order from SLA \$1.60

TT-64-16553

Trans. of Roy[un] de l'Inst[itut] Française de Mécanique
[et Annales des Combustibles Liquides] (France) 1956,
v. 11, [no. 11] p. 1489-[1495].

(Materials--Lubricants, TT, v.12, no. 3)

TT-64-16553

I. Dyson, A.

Office of Technical Services

Alkylation in the Industrial Production of Hydro-
carbon Structures, by R. Jenay, 26 pp.

^R
FRENCH, per, Rev Inst Franco Petrole, Vol XII, No 5,
1957, pp 576-596.

SLA 58-921

Sci

Aug 59

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Stiller, C.

PHYSICO-CHEMICAL METHODS AND TECHNIQUES OF
PREPARATION OF SEDIMENTS FOR POLLEN ANAL-
YSIS. [1962] 30p. 21 refs.

Order from SLA \$2.60

62-16657

Trans. of reprint from Rev[ue de l'Inst[itut]
Fran[cais] du P[et]role [et Annales des Combustibles
Liquides] 1965, v. 10, no. 2, p. 103-114.

DESCRIPTORS: *Pollen, Biological laboratories, Prep-
aration, Sedimentation, Chemical analysis, Separation.

(Biological Sciences--Botany. TT. v. 9, no. 2)

62-16657

1. Title: Palynology
1. Stiller, C.

Office of Technical Services

Tiraspol'sky, W., Rouviere, R., and Chare, J.
PROFITABILITY OF THE CONVERSION OF THE
ROTARY TO TURBINE DRILLING (IN THE LIGHT OF
THE FIRST RESULTS OF SAINT-BAUZILLE-DE-
MONTMEL). [1962] [13]p. 1 ref.

Order from SLA \$1.60

62-16655

Trans. of Rev[ue de l'Institut] Franç[aise du]
Pétrole et Ann[ales des Combustibles Liquides] 1956,
v. 11, no. 2, p. 190-196.

DESCRIPTORS: *Drilling machines, *Turbines,
Effectiveness, Well drilling.

The experiments at Saint Bauzille have shown that we
already dispose in France of a sufficiently developed
tool system that would permit passing to an industrial
expansion of turbo-drilling. In a large portion of the
French wells, turbo-drilling should pay off immediately.
(Machinery, Fabrications and Accessory Equipment,
TT, v. 9, no. 9)
(over)

62-16655

I. Tiraspol'sky, W.
II. Rouviere, R.
III. Chare, J.

Office of Technical Services

Study of the Antioxidant Properties of Some Alkylphenols,
by G. Parc.

FRENCH, per, Rev Inst Franc Petrole Ann Combust
Liquides, Vol 12, No 3, 1957, pp 304-329.

ATS-FJ-1504

Apr 72

The Alkylation in Industrial production
of Hydrocarbon Structures, by

R. Jenny.

FRENCH, per, Revue de l'Institut Francais du
Petrole et Annales des Combustibles

Liquides, Vol XII, 1957, No 5, pp 576-598.

SLA TT 64-16884

Jun 67

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Measurement of the Velocity of Seismic Waves in
Concrete: Description of the Apparatus Constructed
by the French Institute of Petroleum, by R.
Chavet, B. Becouinck, et al, 11 pp.

FRENCH, per, Revue de l'Institut Français du
Pétrole et Annales des Combustibles Liquides,
Vol XII, No 6, 1957, pp 715-759.

SLA 60-10790

Scl

135, 136

OTS, Vol III, No 7

135, 136

62-18751

CONTRIBUTION TO THE STUDY OF LUBRICATED
FRICTION, PTS. I (SECTS. 1-4, 6)-II [1962] [78]p.
(foreign text included).
Order from SLA \$7.60

62-18751

Trans. of Revue de l'Institut Français du Pétrole [et
Annales des Combustibles Liquides] (France) 1957,
v. 12, no. 9, p. 956-969, 971-983.

DESCRIPTORS: *Friction, *Lubrication, *Lubricants,
*Viscosity, Bearings, Ball bearings, Load distribution,
Hydrodynamics, Temperature, Stability, Internal
combustion engines, Numerical analysis, Differential
equations.

Contents:

Description of the apparatus
Experiments under hydrodynamic working conditions
Study of the variations of the coefficient of friction under
(Mechanics, TT, v. 9, no. 2) (over)

Office of Technical Services

Catalytic Dehydrogenation of 1-Methyl-1-Cyclopentene,
by H. I. Choukine, T. J. Marychkina, 5 pp.

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APPLICATION OF THE RADIOACTIVE TRACER
TECHNIQUE TO A STUDY OF THE WEAR OF PIS-
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Order from SIA m152.70, ph34.80 61-10702

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v. 13, no. 7/8, p. 1197-1216.

The principal of the utilization of radioactive piston
rings for wear studies is briefly discussed and the
concepts of nuclear physics necessary for the compre-
hension thereof are reviewed. Some typical results
obtained by this method are given and the problem of
the balance of the distribution of wear debris in the
various ways possible is dealt with. The variety of
applications available to the users of this apparatus
are summarized in the conclusion. (Author)

(Machinery--Engines, TT, v. 3, no. 12)

61-10702

1. Piston rings--
Radiographic analysis
2. Piston rings--Erosion
3. Internal combustion
engines--Equipment
4. Radioisotopes--Applications
1. Thiery, J.

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Schilling, A., Bernella, B., and Fosse, C.
 INSPECTION OF THE LUBRICATION OF ENGINES IN
 SERVICE BY EXAMINATION OF THE USED OILS (La
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 l'Examen des Huiles Usagées). [1961] [49]p. 9 refs.
 Order from SLA m\$3.00, p\$56.30 61-10570

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 et Ann[uaire des] Combustibles Liquides, 1958, v. 11,
 [no. 7/8] p. 1217-1242.

Rapid, simple methods are proposed for detecting and
 evaluating deterioration of used detergent oils in serv-
 ice in diesel and gasoline engines. Spot tests at 20°C
 are followed using quick means for observing the
 state of such oils. Better results are obtained when such
 tests are supplemented with oil spot tests at 200°C,
 microscopic examination of the oil at 20° and 200°C,
 and photometric determination of carbonaceous mate-
 rial suspended in the used oil. Details of the examina-
 tion methods are given, and numerous examples of ap-
 (Materials-Lubricants, TT, v. 5, no. 11) (over)

61-10570

1. Lubricants--Test methods
2. Title: Used oils
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Ariennes, by J. J. Mennig, A. Vatan, 19 pp.

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ATS-59M39P

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27 pp.

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PHENOMENON OF DOLOMITIZATION.** [1963] 109p.
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Order from: SLA \$9.10

63-16545

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v. 13, no. 1, p. 3-66.

DESCRIPTORS: "Dolomite, Calcite, Geochemistry,
Crystal structure, Solubility, Synthesis (Chemistry),
Chemical precipitation, Petrology, Economic geology.

Contents:

The geological problem of the genesis of the dolomite
rocks.

Difficulties encountered in the study of this synthesis

The crystallographic nature of the problem

Literature about experiments on synthetic dolomite

(Earth Sciences--Mineralogy. TT, v. 10, no. 6) (over)

63-16545

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II. Title: Application ...

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[1961] 3p.
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[et Annales des Combustibles Liquides], 1960, v. 15,
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DESCRIPTORS: *Fuel cells, Physical properties,
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(Chemistry--Physical, TT, v. 6, no. 4)

61-22924

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DESCRIPTORS: *Oils, Tensile properties, Determination, Deformation, *Tensiometers.

(Materials - Lubricants, IT, v. 7, no. 5)

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- I. Merigoux, R.
- II. Taxy, M.
- III. ATS-73NS6F
- IV. Associated Technical Services, Inc.,
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G.M. Barrett.

FRENCH, per, Rev ue de L'Institut Franc du
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Mauze, F. and Lohrkin, A.
A CONTRIBUTION TO THE EXPERIMENTAL STUDY
OF THE FORMATION OF SOLID COMBUSTION
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61-25651

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Ladefroux, L.
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[no. 4] p. 367-381.

DESCRIPTORS: *Sound, *Velocity, *Sedimentary
rock, Geophysics, Temperature, Pressure, Porosity,
Measurement, *Laboratory equipment, Design.

(Physics - Acoustics, TT, v. 9, no. 12)

63-10222

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Liquides, Vol 16, No 4, 1961, pp 468-484.
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LOSSES IN GAS WELLS. [1962] 17p.
Order from ATS \$17.90

ATS-24090H

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no. 11, p. 1255-1272.

DESCRIPTION: *Petroleum, *Sources, Natural gases,
*Pressure, Reduction, Determination, *Nomenclature.

(Materials - Fuels, 11, v. 8, no. 5)

62-17690

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ANALOG MODELS AND HEAT TRANSFER. [1963] 30p
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 Order from SLA \$2.60

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Trans. of Revue de l'Institut Français du Pétrole (et
 Annales des Combustibles Liquides) 1962, v. 17
 [no. 4] p. 537-557.

DESCRIPTORS: *Heat transfer, *Analog systems,
 Analog computers, Differential equations, *Mathemati-
 cal models, Electrical networks, Temperature, Electric
 potential, Electric currents, Mathematical analysis.

The article outlines various techniques for analog rep-
 resentation of heat transfer phenomena. The examples
 most often found in the literature deal mainly with
 steady-state and transient heat transfer by conduction.
 The two pertinent techniques--continuous conductors
 and resistance networks--each have their place in these
 (Physics--Thermodynamics, TT, v. 10, no. 10) (over)

63-20196

I. Vichnevskii, R.

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Loroux, D. and Paul, G.
STUDY OF A RAPID METHOD FOR THE DETER-
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Order from ATS \$12.50 ATS-57P6SF

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V. 17, no 6, p. 830-841.

DESCRIPTORS: *Fuels, *Lead compounds, Ethyl
radicals, Determination.

(Materials--Fuels, TT, v. 9, no. 5)

63-12447

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Bonnier, L. M. and Gaudemarie, G. de.
THERMAL STABILITY OF HYDROCARBONS. (1963)
37p

Order from K-H \$37.00 K-H 12710

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DESCRIPTORS: *Hydrocarbons, *Petroleum, Stability,
Thermochemistry.

(Chemistry--Organic, TT. v. 10, no. 11)

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(Biological Sciences--Biochemistry, TT, v. 12, no. 2)

TT-64-10176

I. Champagnet, A.

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TT-64-16421

Six, P.
CONTRIBUTION TO THE STUDY OF PERMEABILITY
OF POROUS ROCK TO A LIQUID. 31p 8refs
Order from SLA \$3.60 TT-64-16421

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(Earth Sciences--Geology, TT, v. 12, no. 3)

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